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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/554,451	12/12/2007	Robert G. Roodman	4456-053195	9061
28289 THE WEBB LA	7590 05/19/201 AW FIRM, P.C.	0	EXAM	IINER
700 KOPPERS BUILDING			MENON, KRISHNAN S	
	EVENTH AVENUE BURGH, PA 15219 ART UNIT PAPER N		PAPER NUMBER	
			1797	
			MAIL DATE	DELIVERY MODE
			05/19/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/554,451	ROODMAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Krishnan S. Menon	1797	
The MAILING DATE of this communication a	ppears on the cover sheet wit	h the correspondence address	
Period for Reply	DIVIO CETTO EVDIDE 4 MC	NITU(e) OD TUIDTV (20) DA'	VC
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re od will apply and will expire SIX (6) MONT ute, cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communic ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 25	October 2005.		
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.		
3) Since this application is in condition for allow	•	•	s is
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) <u>1-3,8,15,18,19,28,36,37,40-43,46,4</u>	1 <u>8-51 and 54</u> is/are pending in	n the application.	
4a) Of the above claim(s) is/are withdo	rawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8)⊠ Claim(s) <u>See Continuation Sheet</u> are subject	t to restriction and/or election	requirement.	
Application Papers			
9)☐ The specification is objected to by the Exami	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ad	ccepted or b)□ objected to b	y the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corre		•	` '
11)☐ The oath or declaration is objected to by the l	Examiner. Note the attached	Office Action or form PTO-152	2.
Priority under 35 U.S.C. § 119			
12)☐ Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docume		li di Ni	
2. Copies of the priority docume	•	·	
 Copies of the certified copies of the pr application from the International Bure 	•	eceived in this National Stage	·
* See the attached detailed Office action for a li		eceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413) /Mail Date	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 		formal Patent Application	
Paper No(s)/Mail Date	6) 🔲 Other:	_·	

Continuation of Disposition of Claims: Claims subject to restriction and/or election requirement are 1-3,8,15,18,19,28,36,37,40-43,46,48-51 and 54.

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3,8,15,18,19,28,36,37,48-51 and 54, drawn to an apparatus for removing impurities.

Group II, claim(s) 40-43 and 46, drawn to a method for removing impurities.

The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Claim 1 is anticipated by US 4,419,235 to Sway, which means that there is no common special technical feature linking the claims.

Species Election Requirement

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

A: Species represented by Fig 1-6

B: Species represented by Fig 7 and 8

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim. Currently, the following claim(s) are generic: claims 1 and 40

REQUIREMENT FOR UNITY OF INVENTION

As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are

claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

WHEN CLAIMS ARE DIRECTED TO MULTIPLE CATEGORIES OF INVENTIONS

As provided in 37 CFR 1.475(b), a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories:

- (1) A product and a process specially adapted for the manufacture of said product; or
 - (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specifically designed for carrying out the said process; or
- (5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

Otherwise, unity of invention might not be present. See 37 CFR 1.475(c).

A telephone call was made to Richard Byrne on 5/11/10 to request an oral election to the above restriction requirement, but did not result in an election being made.

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Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof.

Applicant may submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case.

Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S. Menon whose telephone number is 571-272-1143. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on 571-272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Krishnan S Menon/ Primary Examiner, Art Unit 1797